

Gossypol prepn - from gossypol anthranilate by alkaline hydrolysis of the anthranilate
Patent Assignee: COTTON CELLULOSE CHEMISTR

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
SU 212245	A					197342	B
FR 2178204	A					197402	

Priority Applications (Number Kind Date): SU 937952 A (19650115)

Abstract:

SU 212245 A

Title cpd. which has antitumour activity, is prepd. by alkaline hydrolysis of gossypol anthranilate in the presence of an antioxidant, reaction of the hydrolysate with acetic acid, neutralisation with a soda soln. in the presence of antioxidant and recrystallisation. The yield and quality of the prod. are increased by treatment of the alkali hydrolysate with conc. mineral acid e.g. sulphuric acid. The purity of the prod. is increased to 98-100%.

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Commercial gossypol purificn. using polyamide adsorbent - column regenerated by washing withce and dichloroethane**Patent Assignee: AS VZB CHEM GROWING****Patent Family**

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
SU 322042	A	19760518				197650	B

Priority Applications (Number Kind Date): SU 1350453 A (19690715)**Abstract:**

SU 322042 A

Commercial gossypol contg. $\geq 60\%$ gossypol is purified by soln. in CCl_4 , filtering, and running the filtrate through a column packed with polyamide absorbent. The column can be regenerated by percolation with acetone followed by dichloroethane. The method of purificn. avoids the use of inflammable solvents and repeated pptn. of conventional methods. Pure gossypol is used as an antioxidant and for synthesising analytical reagents of high purity. In an example, $\geq 60\%$ gossypol, acid value ≤ 260 is dissolved in CCl_4 , filtered, and run through a column of capron particles, when a soln. of pure gossypol emerges. When the column is satd. with impurities gossypol is eluted from it with CCl_4 , and after concn. is crystallised out.

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